

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) An input unit arrangement with a mouse function mode and an input function mode, comprising:  
an image-recording device for recording images; and  
a signal-processing device for processing the images to achieve the mouse function mode and the input function mode,  
~~characterized in~~ wherein that the input unit arrangement is arranged to switch from the input function mode to the mouse function mode when the signal-processing device detects a predetermined position-coding pattern in one of said images.

2. (Currently Amended) An input unit arrangement according to claim 1, ~~which is arranged~~ configured to switch from the mouse function mode to the input function mode when the signal-processing device detects a different pattern to the predetermined position-coding pattern in one of said images.

3.-15. (Canceled).

16. (Previously Presented) An input unit arrangement for controlling an electronic device, comprising:

a base;

a position-coding pattern provided on said base and coding a first and second sets of absolute positions on spatially separate areas of said base; said first and second sets of absolute

positions being mutually exclusive and coded by spatially separate first and second subsets of said position-coding pattern;

a handheld image-recording device for recording images of said position-coding pattern; and

a signal-processing device for deriving at least one position from the position coding pattern in the recorded image, said signal-processing device providing an instruction to the electronic device to perform a first function when said at least one absolute position belongs to the first set, and a second function when said at least one absolute position belongs to the second set.

17.-21. (Canceled).

22. (Currently Amended) An input unit arrangement with at least a first and a second function, comprising:

an image-recording device for recording images and a signal-processing device ~~(20, 210)~~ for processing the images,

~~characterized in that~~ wherein the input unit arrangement is arranged to switch from the first function to the second function when the signal-processing device detects a predetermined position-coding pattern in one of said images.

23. (Original) An input unit arrangement according to claim 22, wherein the signal-processing device is designed to process the images to achieve at least one of said functions.

24. (Currently Amended) A pad for use in an input arrangement having an input sensor reading a position-coding pattern and providing a signal to ~~a~~an electronic device to provide instruction thereto, comprising:

a base;

a position-coding pattern provided on said base and coding a first and second sets of absolute positions on spatially separate areas of said base; said first and second sets of absolute positions being mutually exclusive and coded by spatially separate first and second subsets of said position-coding pattern ;

said first and second subsets of absolute positions being associated with first and second functions of said electronic device, respectively, and, when read by the input sensor, allowing the input sensor to instruct said electronic device to perform the function selected by use of the input sensor.

25. (Previously Presented) The pad according to claim 24, further comprising a visual indication provided on said base in association with each of said first and second subsets, said visual indication illustrating the first and second functions, respectively.

26. (Previously Presented) The pad according to claim 24, wherein said second function is a control function generating a command for controlling the electronic device.

27. (Previously Presented) The pad according to claim 26, wherein the controlling command is a command for executing software on the electronic device.

28.-30. (Canceled).

31. (Previously Presented) A method for controlling an electronic device between a first and a second function, using a handheld image recording device interacting with a position-code pattern comprising:

operating the handheld image-recording device for recording images of the position-coding pattern provided on a base, the position coding pattern coding a first and second sets of absolute positions on spatially separate areas of the base; said first and second sets of absolute positions being mutually exclusive and coded by spatially separate first and second subsets of said position-coding pattern, and

operating a signal-processing device for processing the images to derive at least one position from the position coding pattern in the recorded image, providing an instruction to the electronic device to perform a first function when said at least one absolute position belongs to the first set, and a second function when said at least one absolute position belongs to the second set.

32.-43. (Canceled).

44. (Previously Presented) The input unit arrangement of claim 16, wherein said signal-processing device, in said first

function and based on said at least one absolute position, generates signals for positioning a cursor on a display unit of the electronic device.

45. (Currently Amended) The input unit arrangement of ~~claim~~ claim 16, wherein the first function operates on a display control function of the electronic device.

46. (Previously Presented) The input unit arrangement of claim 45, wherein the first function operates on the display control function to map said first set of absolute positions to corresponding absolute positions on a display unit of the electronic device.

47. (Previously Presented) The input unit arrangement of claim 45, wherein the first function operates on the display control function to map said first set of absolute positions to corresponding relative positions on a display unit of the electronic device.

48. (Previously Presented) The input unit arrangement of claim 45, wherein the first function operates on a display control function to effect scrolling.

49. (Previously Presented) The input unit arrangement of claim 16, wherein said second function is an input function of the input unit arrangement.

50. (Previously Presented) The input unit arrangement of claim 49, wherein said input function is selected from the group consisting of: a scanner function for inputting an image and/or text, a photographing function for inputting a photograph, and a handwriting recording function for inputting handwriting.

51. (Previously Presented) The input unit arrangement of claim 50, wherein said signal-processing device, in said

handwriting recording function, records a handwriting stroke as a sequence of absolute positions derived from said images.

52. (Previously Presented) The input unit arrangement of claim 51, wherein said sequence of absolute positions belongs to the second set.

53. (Previously Presented) The input unit arrangement of claim 16, wherein said second function is an control function for generating a controlling command for the electronic device.

54. (Previously Presented) The input unit arrangement of claim 53, wherein said controlling command is a command for executing software on the electronic device.

55. (Previously Presented) The pad of claim 24, wherein the first function operates on a display control function of the electronic device.

56. (Previously Presented) The pad of claim 55, wherein the first function operates on the display control function to map said first set of absolute positions to corresponding absolute positions on a display unit of the electronic device.

57. (Previously Presented) The pad of claim 55, wherein the first function operates on the display control function to map said first set of absolute positions to corresponding relative positions on a display unit of the electronic device.

58. (Previously Presented) The pad of claim 24, wherein said second function is an input function of the input unit arrangement.

59. (Previously Presented) The pad of claim 58, wherein said input function is selected from the group consisting of: a scanner function for inputting an image and/or text, a photographing

function for inputting a photograph, and a handwriting recording function for inputting handwriting.

60. (Currently Amended) ~~A~~The method according to claim 31, further comprising: operating said signal-processing device to control said electronic device to effect at least one of the first and second functions based on said images.

61. (Previously Presented) The method of claim 31, further comprising: operating, in said first function and based on said at least one absolute position, said signal-processing device to generate signals for positioning a cursor on a display unit of the electronic device.

62. (Previously Presented) The method of claim 31, wherein the first function operates on a display control function of the electronic device.

63. (Previously Presented) The method of claim 62, wherein the first function operates on the display control function to map said first set of absolute positions to corresponding absolute positions on a display unit of the electronic device.

64. (Previously Presented) The method of claim 62, wherein the first function operates on the display control function to map said first set of absolute positions to corresponding relative positions on a display unit of the electronic device.

65. (Previously Presented) The method of claim 62, wherein the first function operates on the display control function to effect scrolling.

66. (Previously Presented) The method of claim 31, wherein said second function is an input function of the input unit arrangement.

67. (Currently Amended) The method of ~~elaim-65~~claim 66, wherein said input function is selected from the group consisting of: a scanner function for inputting an image and/or text, a photographing function for inputting a photograph, and a handwriting recording function for inputting handwriting.

68. (Previously Presented) The method of claim 67, wherein said signal-processing device, in said handwriting recording function, records a handwriting stroke as a sequence of absolute positions derived from said images.

69. (Previously Presented) The method of claim 68, wherein said sequence of absolute positions belongs to the second set.

70. (Previously Presented) The method of claim 31, wherein said second function is a control function for generating a controlling command for the electronic device.

71. (Previously Presented) The method of claim 70, wherein said controlling command is a command for executing software on the electronic device.

72. (New) A method for providing for an input unit arrangement comprising:

providing for an input function mode and a mouse function mode in the input unit arrangement;

capturing a plurality of images;

processing the captured images;

determining that at least one of the captured images includes a predetermined position-coding pattern; and

switching from the input function mode to the mouse function mode based on the determination that at least one of the captured images includes the predetermined position-coding pattern.

73. (New) The method of claim 72, further including:



determining that at least one of the captured images includes a different pattern from the predetermined position-coding pattern; and

switching from the mouse function to the input function based on the determination that the at least one captured image includes the different pattern from the predetermined position-coding pattern.